

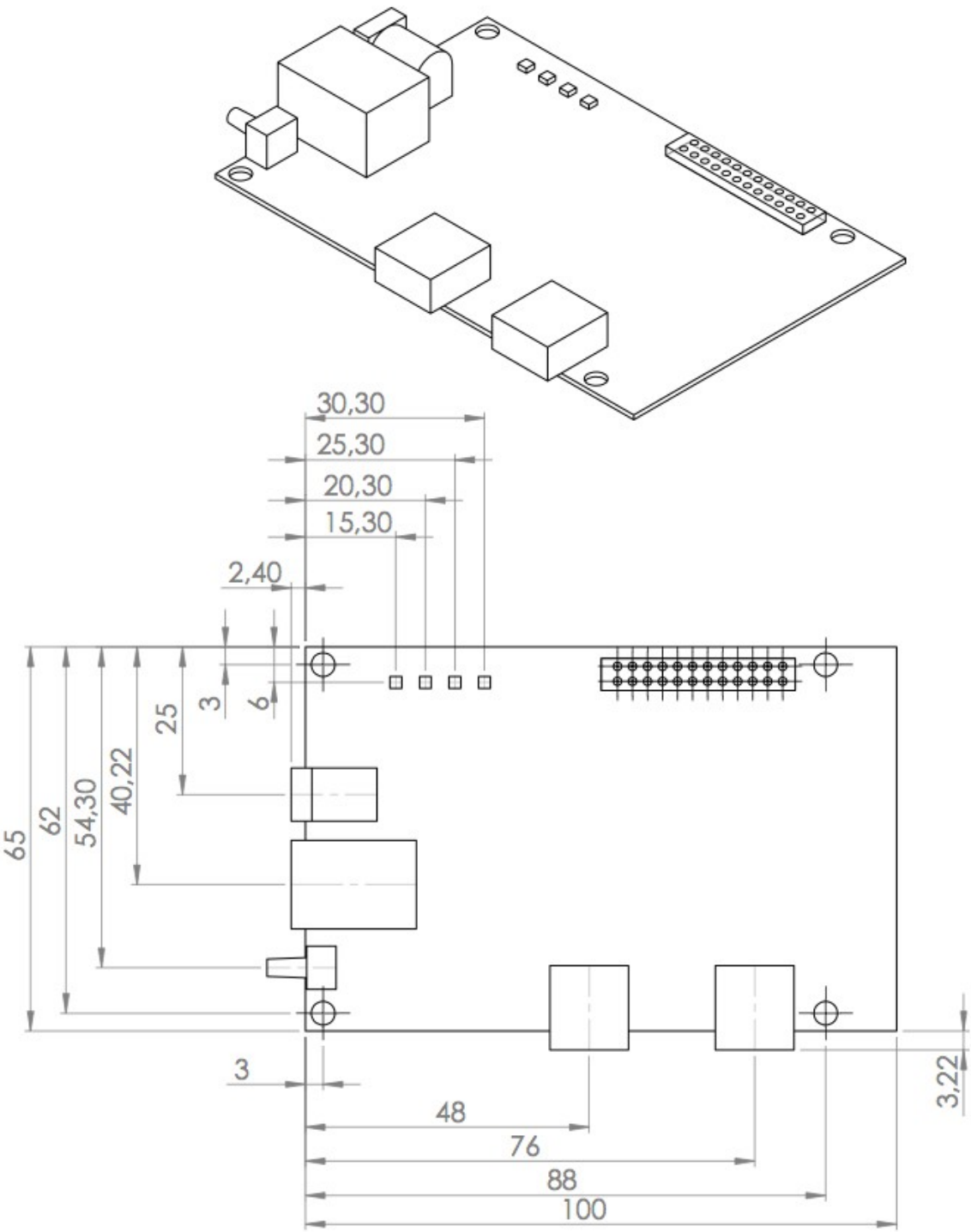
Omnima HPM

RT3662 based board

Specification

- RT3662 500MHz CPU
- RAM: 64MB RAM (expandable to 128 or 256MB as an option)
- Flash: 8MB flash (expandable to 16MB flash or more as an option)
- Dual band 2.4GHz and 5GHz WiFi IPEX to SMA connector
- Giga Ethernet
- 2 USB ports

Detailed drawings



Specification

- J12 2.54mm pitch pinheader extended to include the following signals:

J12 pinheader	
1. SPI_MISO (L16)	2. +5V
3. SPI_MOSI (L17)	4. UART2 TXD2 (J8)
5. SPI_CLK (K17)	6. GND
7. SPI_CS0 (J17)	8. UART2 RXD2 (M8)
9. SPI_CS1 (K16)	10. +3.3V
11. UART1 TXD (P9)	12. DSR_N (M9)
13. UART1 RXD (P8)	14. DTR_N (U12)
15. CTS_N (N9)	16. RIN (N8)
17. RTS_N (U11)	18. DCD_N (R8)
19. JTAG_TRSTN(G13)	20. JTAG_TCLK (G9)
21. JTAG_TMS (H11)	22. JTAG_TDI (G8)
23. GND	24. JTAG_TDO (G10)

- LED Definitions

IC	PIN	NAME	GPIO	I/O	Active	FUNCTION
U17	N8	RIN	GPIO#14	I	Low	Software reset / Factor Default
U17	V12	I2C_SCK	GPIO#2	O	High	USB0 ENABLE
U17	V10	I2C_SD	GPIO#1	O	High	USB1 ENABLE
U17	R8	DCD_N	GPIO#12	I	Low	USB0 Over current detect
U17	M9	DSR_N	GPIO#13	I	Low	USB1 Over current detect
U17	U11	RTS_N	GPIO#7	O	Low	POWER LED
U17	G13	TRSTN	GPIO#21	O	High	ACCESS Status LED
U17	H11	TMS	GPIO#19	O	Low	Wireless Status LED0
U17	G10	TDO	GPIO#17	O	Low	Wireless Status LED0
U17	G8	TDI	GPIO#18	O	Low	Ethernet Status LED1
U17	G9	TCLK	GPIO#20	O	Low	Ethernet Status LED1